



Leading Highway Construction in the 21st Century

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The Challenge for Our Industry

MoDOT Mission: Our mission
is to provide a world-class
transportation experience that
delights our customer and
supports a prosperous
Missouri.



IMPORTANCE TO OUR ECONOMY

- *Transportation accounts for nearly 11% of the U.S. GDP...placing 2nd to only healthcare at 15%.
- *9 cents of every \$1 spent by consumers on a manufactured good is for transportation.
- *14 cents of every \$1 spent by consumers on agricultural products is for transportation.
- *Over 7% of the total civilian workforce works in transportation related activities.



IMPORTANCE TO INDIVIDUALS

- *The typical U.S. household spends between 17 and 19% of their income on transportation...2nd only to housing at 24%.
- *The average American spends 443 hours annually behind the wheel of an automobile, with major metropolitan area congestion accounting for 4.5 billion hours of delay and 6.8 billion gallons of wasted fuel.



Highways for LIFE

Long lasting
Innovative = **Better**

Fast Construction = **Faster**

Efficient and safe = **Less Cost**

We must have all three!



Innovation only occurs
when empowerment
encounters need.

Why long lasting?

- Federal deregulation = 132 percent increase in interstate motor carriers between 1990 and 2000
- Freight tonnage to increase 70 percent between 1998 and 2020
- International trade rose from \$900 billion to \$2.2 trillion from 1990-2000

Why long lasting?

- * Licensed drivers increased from 103 million in 1969 to 191 million in 2000 – an increase of 88 million drivers
- * Household vehicles increased by four percent a year from 1969 to 1990 – a 128 percent increase



Why long lasting?

- Capacity on NHS routes was exceeded on 28 percent of the system during 1998
- Expected to increase to 46 percent by 2020
- 90 percent of urban interstates will approach/exceed capacity by 2020



Why long lasting?

- Aging interstate system
- One-third of our interstate system is in fair or poor condition





Why FASTER?

- Average project takes 5-7 years from concept to construction
- Major project (involving EIS) takes 8-10 years from concept to construction



Why Faster?

- Construction timelines routinely fail to require even optimum *traditional* construction processes, let alone new construction techniques and materials.
- Our customers have told us: We take too long to do our job!



Why More EFFICIENT?

Productivity:

General Mills Plant—Hannibal, MO

Transportation Productivity 1990-2000:

*all business labor= +22.8%

*non-local labor= +18.1%

*local trucking labor= +65.3%



Why More EFFICIENT?

- Shrinking resources:

5 cent Federal gas tax from 1956 would have to be over 33 cents today to have held its purchasing power with CPI!



Why More Efficient?

- Global Competition

China is spending an estimated \$96,500 per lane mile of road construction compared to \$890,000 per lane mile in the U.S. Approximately 1/9 the cost.



We don't have to know
the answers before
we begin!



Presentation can be found
on-line:

www.modot.org/newsandinformation/presentation